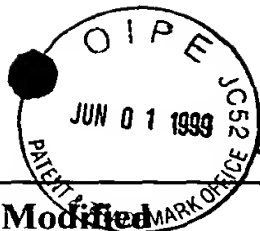


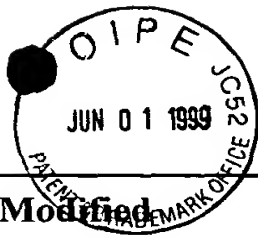
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	AB	Albert et al., "Antisense knockouts: molecular scalpels for the dissection of signal transduction", <i>TIPS</i> , 1994 , 15 , 250-254	
	AC	Altschul et al., "Basic Local Alignment Search Tool", <i>J. Mol. Biol.</i> , 1990 , 215 , 403-410	
	AD	Altschul et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", <i>Nucl. Acids Res.</i> , 1997 , 25(17) , 3389-3402	
	AE	Ausubel et al., <i>Short Protocols in Molecular Biology</i> , 2nd Edition, Greene Publishing Associates and John Wiley & Sons, New York, 1992 , pages 4-1 to 4-29, 10-33 to 10-35, 10-57 to 10-63, 11-3 to 11-54	
	AF	Baker et al., "Cleavage of the 5' Cap Structure of mRNA by a Europium(III) Macrocyclic Complex with Pendant Alcohol Groups", <i>J. Am. Chem. Soc.</i> , 1997 , 119(38) , 8749-8755	
	AG	Buhlmann et al., "Therapeutic Potential for Blockade of the CD40 Ligand, gp39", <i>J. Clin. Immunol.</i> , 1996 , 16(2) , 83-89	
	AH	Chiang et al., "Antisense Oligonucleotides Inhibit Intercellular Adhesion Molecule 1 Expression by Two Distinct Mechanisms", <i>J. Biol. Chem.</i> , 1991 , 266 , 18162-18171	
	AI	Crooke et al., "Pharmacokinetic Properties of Several Novel Oligonucleotide Analogs in mice", <i>J. Pharmacol. Exp. Therapeutics</i> , 1996 , 277 , 923-937	
V	AJ	DeMesmaecker et al., "Antisense Oligonucleotides", <i>Acc. Chem. Res.</i> , 1995 , 28(9) , 366-374	
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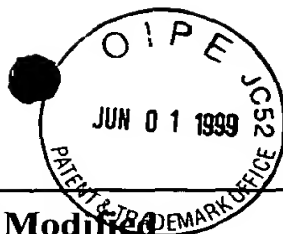
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	AL	Englisch et al., "Chemically Modified Oligonucleotides as Probes and Inhibitors", <i>Angewandte Chemie, International Edition</i> , 1991 , 30(6), 613-629	
	AM	Forster et al., "External Guide Sequences for an RNA Enzyme", <i>Science</i> , 1990 , 249, 783-786	
	AN	Freier et al., "The ups and downs of nucleic acid duplex stability: structure-stability studies on chemically-modified DNA:RNA duplexes", <i>Nucl. Acids Res.</i> , 1997 , 25, 4429-4443	
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	AP	Gruss et al., "CD40/CD40 Ligand Interactions in Normal, Reactive and Malignant Lympho-Hematopoietic Tissues", <i>Leuk. Lymphoma</i> , 1997 , 24, 393-422	
	AQ	Haseloff et al., "Simple RNA enzymes with new and highly specific endoribonuclease activities", <i>Nature</i> , 1988 , 334, 585-591	
	AR	Hyrup, B. et al., "Peptide Nucleic Acids (PNA): Synthesis, Properties and Potential Applications", <i>Bioorg. Med. Chem.</i> , 1996 , 4(1), 5-23	
	AS	Janeway, "How the Immune System Recognizes Invaders", <i>Sci. Amer.</i> , 1993 , 269, 73-79	
	AT	Kabanov et al., "A new class of antivirals: antisense oligonucleotides combined with a hydrophobic substituent effectively inhibit influenza virus reproduction and synthesis of virus-specific proteins in MDCK cells", <i>FEBS Letts.</i> , 1990 , 259(2), 327-330	
↓	AU	Kahn, "From Genome to Proteome: Looking at a Cell's Proteins", <i>Science</i> , 1995 , 270, 369-370	
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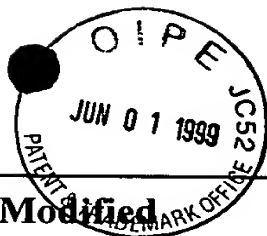
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	AW	Kroschwitz, J.I. (ed.), "Polynucleotides", <i>Concise Encyclopedia of Polymer Science and Engineering</i> , John Wiley & Sons, 1990 , 858-859	
	AX	Letsinger et al., "Cholesteryl-conjugated oligonucleotides: Synthesis, properties and activity as inhibitors of replication of human immunodeficiency virus in cell culture", <i>Proc. Natl. Acad. Sci.</i> , 1989 , <i>86</i> , 6553-6556	
	AY	Lima et al., "Implication of RNA Structure on Antisense Oligonucleotide Hybridization Kinetics", <i>Biochem.</i> , 1992 , <i>31</i> , 12055-12061	
	AZ	Makgoba et al., "The CD2-LFA-3 and LFA-1-ICAM pathways: relevance to T-cell recognition", <i>Immunol. Today</i> , 1989 , <i>10</i> (12), 417-422	
	BA	Manoharan et al., "Cholic Acid-Oligonucleotide Conjugates for Antisense Applications", <i>Bioorganic Med. Chem. Letts.</i> , 1994 , <i>4</i> (8), 1053-1060	
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	BC	Manoharan et al., "Introduction of a Lipophilic Thioether Tether in the Minor Groove of Nucleic Acids for Antisense Applications", <i>Bioorg. Med. Chem. Letts.</i> , 1993 , <i>3</i> (12), 2765-2770	
	BD	Manoharan et al., "Lipidic Nucleic Acids", <i>Tetrahedron Letts.</i> , 1995 , <i>36</i> (21), 3651-3654	
BE		Manoharan et al., "Oligonucleotide Conjugates: Alteration of the Pharmacokinetic Properties of Antisense Agents", <i>Nucleosides & Nucleotides</i> , 1995 , <i>14</i> (3-5), 969-973	
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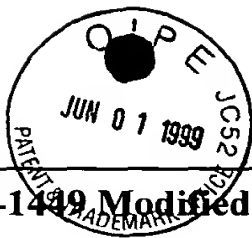
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	BG	Mishra et al., "Improved leishmanicidal effect of phosphorothioate antisense oligonucleotides by LDL-mediated delivery", <i>Biochim. Biophys. Acta</i> , 1995 , 1264, 229-237	
	BH	Miura et al., "Fluorometric determination of total mRNA with oligo(dT) immobilized on microtiter plates", <i>Clin. Chem.</i> , 1996 , 42(11), 1758-1764	
	BI	Nowak, "Entering the Postgenome Era", <i>Science</i> , 1995 , 270, 368-371	
	BJ	Oberhauser et al., "Effective incorporation of 2'-O-methyl-oligonucleotides into liposomes and enhanced cell association through modification with thiocholesterol", <i>Nucl. Acids Res.</i> , 1992 , 20(3), 533-538	
	BK	Saison-Behmoaras et al., "Short modified antisense oligonucleotides directed against Ha-ras point mutation induce selective cleavage of the mRNA and inhibit T24 cells proliferation", <i>EMBO J.</i> , 1991 , 10(5), 1111-1118	
	BL	Sanghvi, Y.S. et al., "Heterocyclic Base Modifications in Nucleic acids and their Applications in Antisense Oligonucleotides", <i>Antisense Research and Applications</i> , CRC Press, Boca Raton, <i>Chapter 15</i> , 1993 , 273-288	
↓	BM	SantaLucia et al., "Improved Nearest-Neighbor Parameters for Predicting DNA Duplex Stability", <i>Biochem.</i> , 1996 , 35, 3555-3562	
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AM	BN	Shea et al., "Synthesis, hybridization properties and antiviral activity of lipid-oligodeoxynucleotide conjugates", <i>Nucl. Acids Res.</i> , 1990 , 18(13), 3777-3783	
	BO	Serra et al., "Predicting Thermodynamic Properties of RNA", <i>Meth. Enzymol.</i> , 1995 , 259, 242-261	
	BP	Sugimoto et al., "Thermodynamic Parameters to Predict Stability of RNA/DNA Hybrid Duplexes", <i>Biochem.</i> , 1995 , 34, 11211-11216	
	BQ	Svinarchuk et al., "Inhibition of HIV proliferation in MT-4 cells by antisense oligonucleotide conjugated to lipophilic groups", <i>Biochimie</i> , 1993 , 79, 49-54	
	BR	Szoka, "Many are probed, but few are chosen", <i>Nature Biotech.</i> , 1997 , 15, 509	
	BS	Rao et al., " <i>elk</i> , Tissue-Specific <i>ets</i> -Related Genes on Chromosomes X and 14 near Translocation Breakpoints", <i>Science</i> , 1989 , 244, 66-70	
	BT	Sharrocks et al., "The ETS-domain Transcription Factor Family", <i>Int. J. Biochem. Cell Biol.</i> , 1997 , 29(12), 1371-1387	
↓	BU	Xia et al., "Thermodynamic Parameters for an Expanded Nearest-Neighbor Model for Formation of RNA Duplexes with Watson-Crick Base Pairs", <i>Biochem.</i> , 1998 , 37, 14719-14735	
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AM	BV	3,687,808	08/29/72	Merigan	195	28
	BW	4,469,863	09/04/84	Ts'o et al.	536	27
	BX	4,476,301	10/09/84	Imbach et al.	536	27
	BY	4,587,044	05/06/86	Miller et al.	530	211
	BZ	4,605,735	08/12/86	Miyoshi et al.	536	27
	CA	4,667,025	05/19/87	Miyoshi et al.	536	27
	CB	4,762,779	08/09/88	Snitman	435	6
	CC	4,789,737	12/06/88	Miyoshi et al.	536	27
	CD	4,824,941	04/25/89	Gordon et al.	530	403
	CE	4,828,979	05/09/89	Klevan et al.	435	6
	CF	4,835,263	05/30/89	Nguyen et al.	536	27
	CG	4,845,205	07/04/89	Huynh Dinh et al.	536	28
	CH	4,876,335	10/24/89	Yammane et al.	536	27
	CI	4,904,582	02/27/90	Tullis	435	6
V	CJ	4,948,882	08/14/90	Ruth	536	27
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AM	CK	WO 86/07363 (claims only included)	12/18/86	PCT	X	
	CL	WO 94/02499	02/03/94	PCT	X	
	CM	WO 94/17093	08/04/94	PCT	X	
EXAMINER <i>Asdi Monahan</i>				DATE CONSIDERED <i>1/12/01</i>		

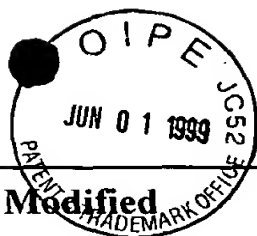
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AM	CN	4,958,013	09/18/90	Letsinger	536	27
	CO	4,981,957	01/01/91	Lebleu et al.	536	27
	CP	5,013,830	05/07/91	Ohtsuka et al.	536	27
	CQ	5,023,243	06/11/91	Tullis	514	44
	CR	5,034,506	07/23/91	Summerton et al.	528	391
	CS	5,082,830	01/21/92	Brakel et al.	514	44
	CT	5,109,124	04/28/92	Ramachandran et al.	536	27
	CU	5,112,963	05/12/92	Pieles et al.	536	27
	CV	5,118,800	06/02/92	Smith et al.	536	23
	CW	5,118,802	06/02/92	Smith et al.	536	27
	CX	5,130,302	12/24/91	Neustadt	514	211
	CY	5,134,066	07/28/92	Rogers et al.	435	91
	CZ	5,138,045	08/11/92	Cook et al.	536	27
	DA	5,149,797	09/22/92	Pederson et al.	536	27
V	DB	5,166,315	11/24/92	Summerton et al.	528	406

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AM	DC	WO 95/28640	10/26/95	PCT	X	

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AM	DD	5,175,273	12/29/92.	Bischofberger et al.	536	27
	DE	5,177,196	01/05/93	Meyer, Jr. et al.	536	22.1
	DF	5,177,198	01/05/93	Spielvogel et al.	536	25.33
	DG	5,185,444	02/09/93	Summerton et al.	544	81
	DH	5,188,897	02/23/93	Suhadolnik et al.	428	402.2
	DI	5,214,134	05/25/93	Weis et al.	536	25.3
	DJ	5,214,136	05/25/93	Lin et al.	514	44
	DK	5,216,141	06/01/93	Benner	536	27.13
	DL	5,218,105	06/08/93	Cook et al.	536	25.31
	DM	5,220,007	06/15/93	Pederson et al.	536	23.1
	DN	5,223,618	06/29/93	Cook et al.	544	276
	DO	5,235,033	08/10/93	Summerton et al.	528	391
	DP	5,245,022	09/14/93	Weis et al.	536	24.5
	DQ	5,254,469	10/19/93	Warren, III et al.	435	188
V	DR	5,256,775	10/26/93	Froehler	536	25.6

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AM	DS	5,258,506	11/02/93	Urdea et al.	536	23.1
	DT	5,262,536	11/16/93	Hobbs, Jr.	546	25
	DU	5,264,423	11/23/93	Cohen et al.	514	44
	DV	5,264,562	11/23/93	Matteucci	536	23.1
	DW	5,264,564	11/23/93	Matteucci	536	23.1
	DX	5,272,250	12/21/93	Spielvogel et al.	530	300
	DY	5,276,019	01/04/94	Cohen et al.	514	44
	DZ	5,278,302	01/11/94	Caruthers et al.	536	24.5
	EA	5,286,717	02/15/94	Cohen et al.	514	44
	EB	5,292,873	03/08/94	Rokita et al.	536	24.3
	EC	5,317,098	05/31/94	Shizuya et al.	536	23.1
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✓	EG	5,366,878	11/22/94	Pederson et al.	435	91.3

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AM	EH	5,367,066	11/22/94	Urdea et al.	536	24.3	
	EI	5,371,241	12/06/94	Brush	549	220	
	EJ	5,472,672	12/05/95	Brennan	422	131	
	EK	5,378,825	01/03/95	Cook et al.	536	25.34	
	EL	5,386,023	01/31/95	Sanghvi et al.	536	25.3	
	EM	5,391,723	02/21/95	Priest	536	23.1	
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	EO	5,399,676	03/21/95	Froehler	536	23.1	
	EP	5,403,711	04/04/95	Walder et al.	435	6	
	EQ	5,405,938	04/11/95	Summerton et al.	528	406	
	ER	5,405,939	04/11/95	Suhadolnik et al.	530	322	
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	ET	5,416,203	05/16/95	Letsinger	536	25.34	
	EU	5,432,272	07/11/95	Benner	536	25.3	
V	EV	5,434,257	08/18/95	Matteucci et al.	536	24.3	
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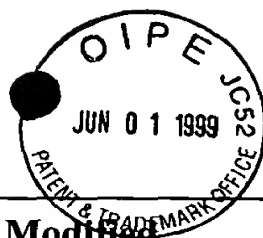
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	EX	5,451,463	09/19/95	Nelson et al.	428	402
	EY	5,453,496	09/26/95	Caruthers et al.	536	24.5
	EZ	5,455,233	10/03/95	Spielvogel et al.	514	44
	FA	5,457,187	10/10/95	Gmeiner et al.	536	25.5
	FB	5,459,255	10/17/95	Cook et al.	536	27.13
	FC	5,466,677	11/14/95	Baxter et al.	514	44
	FD	5,466,786	11/14/95	Buhr et al.	536	26.26
	FE	5,470,967	11/28/95	Huie et al.	536	24.3
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	FG	5,476,925	12/19/95	Letsinger et al.	536	23.1
	FH	5,484,908	01/16/96	Froehler et al.	536	24.31
	FI	5,486,603	06/23/96	Buhr	536	24.3
	FJ	5,489,677	02/06/96	Sanghvi et al.	536	22.1
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	FO	5,512,439	04/30/96	Hornes et al.	435	6
	FP	5,512,667	04/30/96	Reed et al.	536	24.31
	FQ	5,514,785	05/07/96	Van Ness et al.	536	22.1
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	FZ	5,541,306	07/30/96	Agrawal et al.	536	22.1

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					YES	NO

EXAMINER

*Arden Mascher*DATE CONSIDERED *1/12/01*



Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. ISIS-3455	Serial No. 09/295,463
	Applicant Lex M. Cowser	
	Filing Date April 13, 1999	Group 1631 Not Yet Assigned

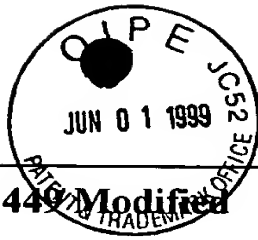
U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
AM	GA	5,541,313	07/30/96	Ruth	536	24.3
	GB	5,541,307	07/30/96	Cook et al.	536	23.1
	GC	5,543,508	08/06/96	Haseloff et al.	536	23.2
	GD	5,545,730	08/13/96	Urdea et al.	536	28.51
	GE	5,550,111	08/27/96	Suhadolnik et al.	514	44
	GF	5,552,538	09/03/96	Urdea et al.	536	24.3
	GG	5,552,540	09/03/96	Haralambidis	536	25.34
	GH	5,554,613	09/10/96	Mallion	514	253
	GI	5,561,225	10/01/96	Maddry et al.	536	23.1
	GJ	5,563,036	10/08/96	Peterson et al.	435	6
	GK	5,563,253	10/08/96	Agrawal et al.	536	22.1
	GL	5,565,350	10/15/96	Kmiec	435	172.3
	GM	5,565,552	10/15/96	Magda et al.	534	11
	GN	5,567,810	10/22/96	Weis et al.	536	25.3
	GO	5,567,811	10/22/96	Misiura et al.	536	25.34
	GP	5,571,799	11/05/96	Tkachuk et al.	514	47
V	GQ	5,574,142	11/12/96	Meyer, Jr. et al.	536	23.1

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation YES NO	

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Form PTO-1449 Modified

List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)

U.S. Department of Commerce
Patent and Trademark Office

Docket No.
ISIS-3455

Serial No.
09/295,463

Applicant
Lex M. Cowser

Filing Date
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Group **1631**
~~Not Yet Assigned~~

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>AM</i>	GR	5,576,427	11/19/96	Cook et al.	536	23.1
	GS	5,578,717	11/26/96	Urdea et al.	536	26.1
	GT	5,578,718	11/26/96	Cook et al.	536	27.21
	GU	5,580,731	12/03/96	Chang et al.	435	6
	GV	5,585,481	12/17/96	Arnold, Jr. et al.	536	25.33
	GW	5,587,361	12/24/96	Cook et al.	514	44
	GX	5,587,371	12/24/96	Sessler et al.	514	185
	GY	5,587,469	12/24/96	Cook et al.	536	23.1
	GZ	5,591,584	01/07/97	Chang et al.	435	6
	HA	5,591,722	01/07/97	Montgomery et al.	514	45
	HB	5,594,121	01/14/97	Froehler et al.	536	23.5
	HC	5,595,726	01/21/97	Magda et al.	424	9.61
	HD	5,596,086	01/21/97	Matteucci et al.	536	22.1
	HE	5,596,091	01/21/97	Switzer	536	24.5
<i>AM</i>	HF	5,597,696	01/28/97	Linn et al.	435	6

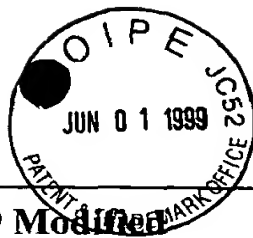
FOREIGN PATENT DOCUMENTS

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					YES	NO

EXAMINER

Andin Marshall

DATE CONSIDERED *1/12/01*



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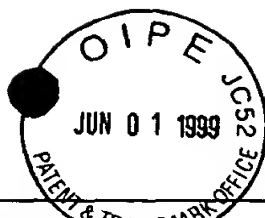
U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
AM	HG	5,597,909	01/28/97	Urdea et al.	536	24.3
	HH	5,599,923	02/04/97	Sessler et al.	540	145
	HI	5,599,928	02/04/97	Hemmi et al.	540	474
	HJ	5,602,240	02/11/97	De Mesmaeker et al.	536	23.1
	HK	5,608,046	03/04/97	Cook et al.	536	23.1
	HL	5,610,289	03/11/97	Cook et al.	536	25.34
	HM	5,610,300	03/11/97	Altmann et al.	544	244
	HN	5,614,617	03/25/97	Cook et al.	536	23.1
	HO	5,618,704	04/08/97	Sanghvi et al.	435	91.5
	HP	5,623,065	04/22/97	Cook et al.	536	23.1
	HQ	5,623,070	04/22/97	Cook et al.	536	27.6
	HR	5,625,050	04/29/97	Beaton et al.	536	24.1
	HS	5,627,053	05/06/97	Usman et al.	435	91.1
	HT	5,633,360	05/27/97	Bischofberger et al.	536	22.1
↓	HU	5,639,873	06/17/97	Barascut et al.	536	25.3

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO

EXAMINER <i>Andin Massey</i>	DATE CONSIDERED <i>1/12/01</i>
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	Applicant Lex M. Cowser	
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U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
AM	HV	5,646,265	07/08/97	McGee	536	25.34
	HW	5,652,355	07/29/97	Metelev et al.	536	24.5
	HX	5,652,356	07/29/97	Agrawal	536	24.5
	HY	5,658,873	08/19/97	Bertsch-Frank et al.	510	375
	HZ	5,663,312	09/02/97	Chaturvedula	536	22.1
	IA	5,670,633	09/23/97	Cook et al.	536	23.1
	IB	5,677,437	10/14/97	Teng et al.	536	23.1
	IC	5,677,439	10/14/97	Weis et al.	536	23.1
	ID	5,681,941	10/28/97	Cook et al.	536	23.1
	IE	5,688,941	11/18/97	Cook et al.	536	25.3
	IF	5,693,463	12/02/97	Edwards et al.	435	6
	IG	5,696,248	12/09/97	Peyman et al.	536	22.1
	IH	5,700,920	12/23/97	Altmann et al.	536	221
	II	5,700,922	12/23/97	Cook	536	23.1
	IJ	5,708,158	01/13/98	Hoey	536	23.5

FOREIGN PATENT DOCUMENTS

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EXAMINER <i>Andin Marshall</i>	DATE CONSIDERED <i>1/12/01</i>
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U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
	IK	5,714,331	02/03/98	Buchardt et al.	435	6
	IL	5,716,780	02/10/98	Edwards et al.	435	6
	IM	5,719,262	02/17/98	Buchardt et al.	530	300
	IN	5,463,564	10/31/95	Agrafiotis et al.	364	496
	IO	5,684,711	11/04/97	Agrafiotis et al.	364	500
*	IP	08/465,880	06/06/95	Cook		
*	IQ	08/468,037	06/06/95	Cook et al.		
*	IR	08/762,488	12/01/96	Cook et al.		
		5,955,589	9/21/99	Cook et al.	536	23.1
		5,859,221	1/12/99	Cook et al.	536	23.1

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation YES NO	

EXAMINER <i>Arden Marshall</i>	DATE CONSIDERED <i>1/12/01</i>
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*Pursuant to 37 C.F.R. 1.97(a)(2)(iii), no copy of a U.S. patent application need be included with an Information Disclosure Statement filed under 37 C.F.R. 1.97.